

Department of Zoology 2023 Academic Year-2021 –Batch
1.3.4 (c) Details of students undertaking field work/projects/ internships / student projects

Reg. No.	Students Name	Projects title
21 ZL 01	Ajith Kumar .M	Wild animals Habitats
21 ZL 02	Jayasurya .S	Animal Habits
21 ZL 04	Muhammed Basith. A.A	Prawn Culture
21 ZL 05	Pradheep .S	Cattle Grow
21 ZL 07	Siddharth . S	Wild animals Habitats
21 ZL 08	Surya. N	Wild animals Habitats
21 ZL 09	Vishnu .M	Animal Habits
21 ZL 10	Aishwarya. P	Behavioural and Cognitive Neuroscience
21 ZL 11	Anbukkani . M	Eye in Different Organism
21 ZL 12	Aneesha. M	Artificial Incubation of Chick Egg
21 ZL 13	Deepa. N	Pregnancy
21 ZL 16	Gayathri . V	Behavioural and Cognitive Neuroscience
21 ZL 17	Geetha .K	Twins
21 ZL 18	Gomathi .S	Twins
21 ZL 19	Hemavarni. S	Tumour infiltrating lymphocytes in melanoma prognosis and Cancer Immunotherapy
21 ZL 20	Indhu .S	Blood Group in Man
21 ZL 21	Jafeesa .S	Artificial Incubation of Chick Egg
21 ZL 22	Janani Devi.P	Tumour infiltrating lymphocytes in melanoma prognosis and Cancer Immunotherapy
21 ZL 23	Jeevitha V	Pace maker
21 ZL 25	Mahalakshmi. A	Enlargement of Prostate gland
21 ZL 26	Malini Priya T	Blood group in Man
21 ZL 27	Menaka G	Pace maker
21 ZL 29	Rithika .S	Pregnancy
21 ZL 30	Rubena Begam .S	Bee Keeping
21 ZL 32	Sri Suveetha .T	Eye in Different Organism
21 ZL 33	Veda Thirumakal A. M	Enlargement of Prostate gland
21 ZL 34	Vinitha .K	Bee Keeping

Head of the department

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Assistant Professor and Head
Department of Zoology
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Pollachi - 642 001.

Principal

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 6
Coimbatore District

Programme Code:	B.Sc.,			Programme Title:	Bachelor of Zoology	
Course Code:	21UZY615			Title	Batch:	2021 – 2024
Practical Hrs./Week	2	Tutorial Hrs./Sem.	--	Core Lab- IV: Ecology, Evolution, Biotechnology, Microbiology , Sericulture, Insect Pest Management, Parasitology and Aquaculture, Dairy farming and Management Technology, Wildlife Conservation (Non-Semester Pattern)	Semester:	V & VI
					Credits:	4

Course Objective

To obtain practical knowledge in ecology, evolution, biotechnology, microbiology by doing experiments on physico-chemical characters of environment and also uptaining the real time visualising the appliances used in sericulture and aquaculture

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Apply the knowledge on Ecology, Evolution concepts in real time experiments	K3
CO2	Analyse the different water quality parameters, microbial culture and morphometric measurement of fish.	K4
CO3	Understand the techniques and the same in Biotechnology and Microbiology experiments	K5
CO4	Analyse the real time problems in Sericulture and Aquaculture	K4
CO5	Understand the environment quality and critically evaluate and solve	K6

Mapping

PO / PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	M	--	H	H	L	M	H	H	M
CO2	--	--	M	M	--	M	H	M	M
CO3	L	L	M	H	--	M	M	M	L
CO4	L	--	M	--	--	H	M	M	M
CO5	--	--	M	M	--	H	H	H	M

Content
EXPERIMENTS • Estimation of dissolved oxygen in water samples. • Estimation of carbondioxide • Determination of primary productivity • Estimation of salinity in water samples • Determination of pH in water samples

- Culture medium preparation (Demonstration only)
- Milk Methylene Blue Test
- Hanging drop preparation
- Morphology and morphometric measurements of fish by using model.
- Water quality analyzer (Demonstration only)

SPOTTERS

Ecology and Evolution

- Albunea
- Hippa
- Anguilla
- Fossil
- Vermiform appendix
- Giraffe
- Lung fish

Biotechnology and Microbiology

- E-Coli
- Plasmids
- Biodiesel Plant – Jatropha
- PCR
- Colony counter
- Magnetic stirrer
- Laminar Air Flow Chamber
- Gel Electrophoresis

Sericulture

- Silkworm
- Silk gland
- Cocoon
- Mulberry shoot
- Mulberry leaf
- Netrika/chandrika
- Leaf Mosaic disease
- Leaf Blight disease
- Pebrine

Aquaculture

- Common Carp
- Sucker fish
- Live feed - Daphnia
- Purse seines net
- Hook
- Fish parasite – Argulus
- Chinese dip net
- Edible Oyster
- Pearl oyster – *Pinctada vulgaris*
- Lerniasis

Total Contact Hrs

60

Pedagogy

Direct Instruction, Hands on Training, Digital Presentation

Assessment Methods:

Record, practical skills, observation note.

Mark Distribution:

Total Marks	Internal(CIA)	Marks	End of semester Practical Examination (ESE)	Marks
100	Practical Skill/observation	10	Experiments-major practical	20
			Mini Project	10
	Model Practical Examination	30	Spotters	20
	Record work	10	Record	10
	Total Marks	50	Total Marks	60 (converted into 50)

Reference Books

1. Ganga, G and Sulochana chetty. An introduction to sericulture. Oxford and IBH Publishing company Pvt. Ltd. New Delhi (1999)
2. Jayasurya,. Economic Zoology. Saras publication. Nagarcoil, Kanyakumari Dist. Tamil Nadu (2018)
3. Kumaresan. V Biotechnology. Saras publication. Nagarcoil, Kanyakumari Dist. Tamil Nadu(2018)
4. Odum, E. P Fundamentals of ecology W.B. Sanders Company, London (1971)
5. Arumugam, N. Aquaculture SARAS Publications, Nagercoil, Tamilnadu. (2020)
6. ICAR Publication 1st edition. Hand book of fisheries and aquaculture, Directorate of information and publicatios of agriculture. Indian Council of Agricultural Research, New Delhi (2006)
- 7 . Sinha,J., Chatterjee.A.K. and Chattopadhyay. P. Advanced practical Zoology. Books and Allied pvt. Limited , Kolkata. (2011)



HOD

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PRINCIPAL

Dr. R. MUTHUKUMARAN,
M.A., M.Phil., B.Ed., Ph.D.,
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

M.AJITH KUMAR (21-ZL-01)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 28-03-2024



Signature of the Course Teacher

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Head of the Department

Dr. S. SOMASUNDARAM M.Sc., Ph D.,
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Dr. S. SUBRASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
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Chinnakalayamputhur, Palani - 624 615.



Dr. S. SOMASUNDARAM M.Sc., Ph D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "WILD ANIMALS HABITAT IN VALPARAI AND TOPSLIP" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 1-4-24

A handwritten signature in blue ink, appearing to read 'Ajith Kumar', with a stylized flourish at the end.

Signature of the candidate

M.AJITH KUMAR

(21-ZL-01)

ANIMAL HABITS

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

S.JAYASURYA (21-ZL-02)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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Place: Pollachi

Date:


Signature of the Course Teacher

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Head of the Department

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1/4/2024
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DECLARATION

I hereby declare that the Project entitled "**ANIMAL HABITS**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01.04.24 .



Signature of the candidate

S.JAYASURYA

(21-ZL-02)

PRAWN CULTURE

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University,
Coimbatore)

In Partial fulfilment of the requirements for the award of the
Degree of,

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted By,

MUHAMMED BASITH .A.A (21-ZL-04)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled " **PRAWN CULTURE** " submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 01.04.2024


Signature of the Course Teacher

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Pollachi - 642 001.


Head of the Department

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11/4/2024
Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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Chinnakalayamputhur, Palani - 624 615.


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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DECLARATION

I hereby declare that the Project entitled " **PRAWN CULTURE** " Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01.04.2024

Muhammed Basith A.A

Signature of the candidate

MUHAMMED BASITH.A.A

(21-ZL-04)

PROJECT REPORT ON CATTLE FARMING

Submitted

By,

S. PRADHEEP

21-ZL-05

BACHELOR OF SCIENCE IN ZOOLOGY



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University
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POLLACHI-642001, TAMILNADU

APRIL-2024

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiar University,
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BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : S.PRADHEEP

REGISTER NUMBER : 21-ZL-05

during 2023-2024 on CATTLE FARMING


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Staff - in - charge
Department Assistant Professor and Head
Department of Zoology
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Head of the
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Submitted for the Bharathiar University Practical Examination held during April
2024 at Nallamuthu Gounder Mahalingam College, Pollachi.

Date: 1-4-2024.

Examiner:


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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2.

CERTIFICATE

This is to certify that the project entitled " **CATTLE FARMING** " submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **S.PRADHEEP [21-ZL-05]** during the period of 2023-2024 for his study in **DEPARTMENT OF ZOOLOGY** under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place:

Pollachi

Date:

1-4-2024


Signature of the Course
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WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP

A Project Submitted to the
Nallamuthu Gounder Mahalingam College (Autonomous),
An Autonomous Institution affiliated to Bharathiar University Coimbatore.
In Partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted by
S.SIDDHARTH
(Reg.No.21-ZL-07)

Supervisor and Guide
Dr. S. SOMASUNDARAM, Ph.D.,



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
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TAMILNADU

APRIL-2024

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BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : S.SIDDHARTH

REGISTER NUMBER : 21-ZL-07

during 2023-2024 on WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP

Staff – in – charge

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Date: 1.4.24

Examiner:

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CERTIFICATE

This is to certify that the project entitled "**WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP**" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **S.SIDDHARTH [21-ZL-07]** during the period of 2023-2024 for his study in **DEPARTMENT OF ZOOLOGY** under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place: Pollachi

Date: 1.4.24



Signature of the Course Teacher

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Head of the Department

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PROJECT REPORT ON WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP

submitted By,

Surya.N

21-ZL-08

BACHLEOR OF SCIENCE IN ZOOLOGY



DEPARTMENT OF ZOOLOGY

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POLLACHI-642001

APRIL-2024

CERTIFICATE

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Place: Pollachi

Date: 01.04.2024.



Signature of the Course Teacher

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Head of the Department

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(Re-Accredited by NAAC and ISO 9001; 2018 Certified Institution)

POLLACHI-642001, Tamil Nadu



BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME

:Surya.N

N. Surya.N

REGISTER NUMBER

:21-ZL-08

during **2023-2024** on "WILD ANIMALS HABITATS IN VALPARAI AND TOPSLIP"

[Signature]
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

Staff- in- charge

[Signature]
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Head of the Department

Submitted for the Bharathiar University Practical Examination held during
march 2024 at Nallamuthu Gounder Mahalingam College, Pollachi.

ANIMAL HABITS

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

M.VISHNU (21-ZL-09)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**ANIMALS HABITS**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 26-3-2024



Signature of the Course Teacher

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Head of the Department

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1/4/2024

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Chinnakalayamputhur, Palani - 624 615.



Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Nallamuthu Gounder Mahalingam College
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DECLARATION

I hereby declare that the Project entitled "**ANIMAL HABITS**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date:



Signature of the candidate

M.VISHNU

(21-ZL-09)

PROJECT REPORT ON BEHAVIOURAL NEUROSCIENCE

Submitted By,

P.AISWARYA

21-ZL-10

BACHELOR OF SCIENCE IN ZOOLOGY



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POLLACHI-642001, TAMILNADU

APRIL-2024

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Pollachi-642001, Tamil Nadu.



BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : P.AISWARYA

REGISTER NUMBER. : 21-ZL-10

during 2023-2024 on BEHAVIOURAL NEUROSCIENCE


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Nallamuthu Gounder Mahalingam College
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Head of the Department
Assistant Professor and Head
Department of Zoology
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Pollachi - 642 001.

Submitted for the Bharathiar University Practical Examination held during April 2024

at Nallamuthu Gounder Mahalingam College, Pollachi.

Date: 1-4-2024

Examiner:

1.

2.


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
Arumighu Palani Andavar Arts College for Women
Chinnakalayamputhur, Palani - 624 615.


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

CERTIFICATE

This is to certify that the project entitled "**BEHAVIOURAL NEUROSCIENCE**" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **P.AISWARYA(21-ZL-10)** and **V.GAYATHRI(21-ZL-16)** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place :Pollachi

Date : 01.04.2024



Signature of the Course Teacher
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Head of the Department
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "**BEHAVIOURAL NEUROSCIENCE**" Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in a partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by me and this has not been formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates any University.

Place: Pollachi

Signature of the candidate

Date: 01.04.2024

P.Aiswarya

21-ZL-10



PROJECT REPORT ON EYE IN DIFFERENT ORGANISM'S

Submitted By,

M. ANBUKKANI

21-ZL-11

BACHELOR OF SCIENCE IN ZOOLOGY



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University Coimbatore)

(Re-Accredited by NAAC and ISO9001:2015 Certified Institution)

POLLACHI-642001,

TAMILNADU

APRIL-2024

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiar University,

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Certified Institution) Pollachi-642001, TamilNadu.



BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : ANBUKKANI M

REGISTER NUMBER : 21-ZL-11

During 2023-2024 on "EYE IN DIFFERENT ORGANISM'S"

Staff-in-charge

Head of the Department

Submitted for the Bharathiar University Practical Examination held during April 2024 at Nallamuthu Gounder Mahalingam College, Pollachi.

Date: 1-4-2024

Examiner:

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Assistant Professor of Zoology

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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

CERTIFICATE

This is to certify that the project entitled "EYE IN DIFFERENT ORGANISM'S" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **ANBUKKANI M [21-ZL-11]** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Place : Pollachi

Date : 1-4-2024


Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph.D.
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Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I here by declare that the Project entitled "**EYE IN DIFFERENT ORGANISM'S**" Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by me and this has not been formed the basis for the award of any Degree/Diploma/Associate ship/ Fellowship or other similar title to any candidate of any University.

Place : Pollachi

Date: 1/4/2024



Signature of the candidate

ANBUKKANI M

21-ZL-11

ARTIFICIAL INCUBATION OF CHICKEN EGGS

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University,
Coimbatore)

In Partial fulfilment of the requirements for the award of the
Degree of,

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted By,

M.ANEESHA (21-ZL-12)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University
Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**ARIFICTIFICIAL INCUBATION OF CHICKEN EGGS**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date:


Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Head of the Department

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Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "**ARTIFICIAL INCUBATION OF CHICKEN EGGS**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/4/24 .



Signature of the candidate

M.ANEESHA

(21-ZL-12)

DETAILED STUDY ON ASSOCIATED WITH PREGNANCY

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

N. DEEPA

(21-ZL-13)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled " **DETAILED STUDY ON BENIGN HYPERPLASIA**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 01.04.24

Teacher


Signature of the Course

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Department


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DECLARATION

I hereby declare that the Project entitled * **DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA** Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01.04.24

candidate

S. Gomathi
Signature of the

N.Deepa

(21-ZL-13)

PROJECT REPORT ON BEHAVIOURAL NEUROSCIENCE

Submitted By,

V.GAYATHRI

21-ZL-16

BACHELOR OF SCIENCE IN ZOOLOGY



NALLAMUTHUGOUNDERMAHALINGAMCOLLEGE

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Coimbatore)(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001, TAMILNADU

APRIL-2024

NALLAMUTHUGOUNDERMAHALINGAMCOLLEGE

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BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide fieldwork report done by the student

NAME : V. GAYATHRI

REGISTER NUMBER : 21 - ZL - 16

during 2023-2024 on BEHAVIOURAL NEUROSCIENCE


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Submitted for the Bharathiar University Practical Examination held during April

2024 at Nallamuthu Gounder Mahalingam College, Pollachi.


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Pollachi - 642 001.


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Date:


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

CERTIFICATE

This is to certify that the project entitled "**BEHAVIOURAL NEUROSCIENCE**" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **P. AISWARYA (21-ZL-10)** and **V. GAYATHRI (21-ZL-16)** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidate of any University.

Place: Pollachi

Date: 1-4-2024


Dr. S. SOMASUNDARAM
Signature of the Course Teacher
Department of Zoology
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Head of the Department
Department of Zoology
Nallamuthu Gounder Mahalingam College
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DECLARATION

I hereby declare that the Project entitled **"BEHAVIOURAL NEUROSCIENCE"** Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in a partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by me and this has not been formed the basis for the award of any Degree/Diploma/Associate ship/ Fellowship or other similar title to any candidate of any University.

Place: Pollachi

V. Gayathri
Signature of the candidate
V.GAYATHRI 21 -ZL-16

Date: *01.04.2024*

DETAILED STUDY ON TWINS

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

K.GEETHA (21-ZL-17)

Significance of twins in genetic related studies



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "DETAILED STUDY ON TWINS" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 1/04/24

Signature of examiner


Dr. S. SUBHASHINI M.Sc., M.Phil., PGDBI, Ph.D.,
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Arulmighu Palani Andavar Arts College for Women
Chinnakalayamputhur, Palani - 624 615.


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Signature of the Course
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Head of the Department
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

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Place: Pollachi

Date: 1/04/24.

K. Geetha.

Signature of the candidate

K.GEETHA(21-ZL-17)

DETAILED STUDY ON TWINS

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

S.GOMATHI (21-ZL-18)

Significance of twins in genetic related studies



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

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Place: Pollachi

Date: 01.04.2024

Signature of examiner


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
Arulmighu Palani Andavar Arts College for Women
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Pollachi - 642 001.

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Place: Pollachi

Date: 01.04.2024

S. Gomathi

Signature of the candidate

S.GOMATHI(21-ZL-18)

TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY

A Project Submitted to the
Nallamuthu Gounder Mahalingam College (Autonomous),
An Autonomous Institution affiliated to Bharathiar University Coimbatore.
In Partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted by
S.HEMAVARNI
Reg.No:21-ZL-19

Supervisor and Guide
Dr. S. SOMASUNDARAM, Ph.D.,



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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TAMILNADU

APRIL-2024

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BACHELOR OF SCIENCE IN ZOOLOGY

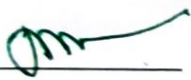
BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : HEMAVARNI S

REGISTER NUMBER : 21-ZL-19

during 2023-2024 on **TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA
PROGNOSIS AND CANCER IMMUNOTHERAPY.**


Staff in charge
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Assistant Professor and head
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Pollachi - 642 001.

Subscribed for the Bharathiar University Practical Examination held during April 2024
at Nallamuthu Gounder Mahalingam College, Pollachi.


Head of the Department
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Assistant Professor
Department of Zoology
Nallamuthu Gounder Mahalingam College
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Date: 1-4-2024

Examiner:

- 1.
- 2.


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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Arulmighu Palani Andavar Arts College for Women
Chinnakalayamputhur, Palani - 624 615.



CERTIFICATE

This is to certify that the project entitled "TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **S.HEMAVARNI [21-ZL-19]** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place: Pollachi

Date: 01.04.24


Signature of the Course Teacher

L. SOMASUNDARAM
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Head of the Department
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY" Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in a partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by me and this has not been formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates any University.

Place: Pollachi

Date: 01.04.24



Signature of the candidate

S.HEMAVARNI

21-ZL-19

BLOOD GROUP IN HUMAN

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiar University,
Coimbatore)

In Partial fulfilment of the requirements for the award of the
Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

S. INDHU (21-ZL-20)

T.MALINI PRIYA (21-ZL-26)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**DETAILED STUDY BLOOD GROUP IN HUMAN**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date:


Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Head of the Department

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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY BLOOD GROUP IN HUMAN**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/03/2024



Signature of the candidate

S.Indhu

(21-ZL-20)

ARTIFICIAL INCUBATION OF CHICKEN EGGS

A Project submitted to

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Coimbatore)

In Partial fulfilment of the requirements for the award of the

Degree of,

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted By,

S .JAFEESA (21-ZL-21)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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POLLACHI-642001

APRIL-2024

CERTIFICATE

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Place: Pollachi

Date:


Signature of the Course Teacher
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Head of the Department

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11/4/2024
Dr. S. SUBHAS M.V.Sc., M.Phil., PGDBI, Ph.D.,
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Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "**ARTIFICIAL INCUBATION OF CHICKEN EGGS** " Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/03/2024

S. Jafeesa.

Signature of the candidate

S. JAFEESA

(21-ZL-21)

TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY

A Project Submitted to the
Nallamuthu Gounder Mahalingam College (Autonomous),
An Autonomous Institution affiliated to Bharathiar University Coimbatore.
In Partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted by
P.JANANI DEVI
Reg.no:21-ZL-22

Supervisor and Guide
Dr. S. SOMASUNDARAM, Ph.D.,



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
(An Autonomous Institution affiliated to Bharathiar University Coimbatore)
(Re-Accredited by NAAC and ISO9001:2015 Certified Institution)
POLLACHI-642 001
TAMILNADU

APRIL-2024

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiar University, Coimbatore)

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Pollachi-642001, Tamil Nadu.



BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : JANANI DEVI P

REGISTER NUMBER : 21-ZL-22

during 2023-2024 on TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA
PROGNOSIS AND CANCER IMMUNOTHERAPY.


Staff - in - charge
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
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Submitted for the Bharathiar University Practical Examination held during April 2024
at Nallamuthu Gounder Mahalingam College, Pollachi.


Head of the Department
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Assistant Professor and Head
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Date: 1-4-2024

Examiner:

- 1.
- 2.


Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
Arulmighu Palani Andavar Arts College for Women
Chinnakalayamputhur, Palani - 624 615.


Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
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Pollachi - 642 001.

CERTIFICATE

This is to certify that the project entitled "TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **JANANI DEVI P [21-ZL-22]** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place: Pollachi

Date: 1-4-2024



Signature of the Course Teacher
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Assistant Professor and Head
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Head of the Department
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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DECLARATION

I hereby declare that the Project entitled "**TUMOUR INFILTRATING LYMPHOCYTES IN MELANOMA PROGNOSIS AND CANCER IMMUNOTHERAPY**" Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in a partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by me and this has not been formed the basis for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates any University.

Place: Pollachi

Date: 01.04.2024

P. Jananidevi

Signature of the candidate

JANANI DEVI P

21-ZL-22

**DETAILED STUDY ON
PACEMAKER ANDELECTRICACTIVITY IN HEART**

A Project submitted to
Nallamuthu Gounder Mahalingam College, Pollachi
(An Autonomous Institution Affiliated to Bharathiyar
University, Coimbatore)
In Partial fulfillment of the requirements for the award of
the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,
G.MENAKA (21-ZL-27)
V.JEEVITHA (21-ZL-23)



**DEPARTMENT OF ZOOLOGY
NALLAMUTHU GOUNDER MAHALINGAM COLLEGE**

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University Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified
Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**DETAILED STUDY ON PACEMAKER AND ELECTRIC ACTIVITY IN HEART**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfillment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 01.04.2024

Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph.D.
Assistant Professor and Head
Department of Zoology
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Head of the Department

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
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DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY ON PACEMAKER AND ELECTRIC ACTIVITY IN HEART**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfillment of the requirements for the Award of THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Signature of the candidate

Date: 01.04.2024

V. Jeevitha

V.Jeevitha
(21-ZL-23)

DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

A.MAHALAKSHMI (21-ZL-25)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiyar University Coimbatore)

(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "DETAILED STUDY ON BENIGN HYPERPLASIA" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

A. Mahalakshmi
Signature of candidate

Place: Pollachi

A. Mahalakshmi

(21-ZL-25)

Date: 01.04.2024

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Signature of the examiner

[Signature]
Head of the Department

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11/4/2024
Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01.04.2024

A. Mahalakshmi
Signature of the candidate

A.Mahalakshmi

(21-ZL-25).

BLOOD GROUP IN HUMAN

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi
(An Autonomous Institution Affiliated to Bharathiar University,
Coimbatore)

In Partial fulfilment of the requirements for the award of the
Degree of,

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Submitted By,

S. INDHU (21-ZL-20)

T.MALINI PRIYA (21-ZL-26)



DEPARTMENT OF ZOOLOGY

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POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**DETAILED STUDY BLOOD GROUP IN HUMAN**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 11/4/2024


Signature of the Course Teacher

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Head of the Department

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DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY ON BLOOD GROUP IN HUMAN**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/03/2024

T. Malini Priya.

Signature of the candidate

T.Malini priya

(21-ZL-26)

**DETAILED STUDY ON
PACEMAKER ANDELECTRICACTIVITY IN HEART**

A Project submitted to
Nallamuthu Gounder Mahalingam College, Pollachi
(An Autonomous Institution Affiliated to Bharathiyar
University, Coimbatore)

In Partial fulfillment of the requirements for the award of
the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,
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V.JEEVITHA (21-ZL-23)



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CERTIFICATE

This is to certify that the project, entitled "**DETAILED STUDY ON PACEMAKER AND ELECTRIC ACTIVITY IN HEART**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfillment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** Is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 01.04.24

Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph D.,
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Head of the Department

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Dr. S. SOMASUNDARAM M.Sc., Ph D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
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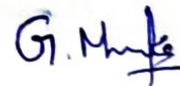
DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY ON PACEMAKER AND ELECTRIC ACTIVITY IN HEART**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi in a partial fulfillment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01.04.2024

Signature of the candidate



G.Menaka
(21-ZL-27)

DETAILED STUDY ON ASSOCIATED WITH PREGNANCY

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

S. RITHIKA

(21-ZL-29)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled " **DETAILED STUDY ON BENIGN HYPERPLASIA**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfillment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date: 01/04/2024.

Teacher


11/4/2024

Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
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11/4/2024

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Signature of the Course

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Head of the Department

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DECLARATION

I hereby declare that the Project entitled " **DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/04/2024.

candidate



Signature of the

S. Rithika

(21-Z1-29).

APICULTURE

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

S.RUBENA BEGAM(21-ZL-30)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**APICULTURE**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Signature of candidate

S.Rubena Begam

(21-ZL-30)

Place: Pollachi

Date:

Signature of examiner



14/2024

Dr. S. SUBHASHINI, M.Sc., M.Phil., PGDBI, Ph.D.,
Assistant Professor of Zoology
Arumighu Palani Andavar Arts College for Women
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Signature of the Course Teacher



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Pollachi - 642 001

Head of the Department



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14/2024

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I hereby declare that the Project entitled "APICULTURE" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 1-4-23



Signature of the candidate

S.RUBENA BEGAM

(21-ZL-30)

EYES IN DIFFERENT ORGANISMS

A Project Submitted to the
Nallamuthu Gounder Mahalingam College (Autonomous),
An Autonomous Institution affiliated to Bharathiar University Coimbatore.
In Partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted by
T.SRI SUVEETHA
(21-ZL-32)

Supervisor and Guide
Dr. S. SOMASUNDARAM, Ph.D.,



DEPARTMENT OF ZOOLOGY

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APRIL-2024

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

(An Autonomous Institution affiliated to Bharathiar University,

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Certified Institution) Pollachi-642001, TamilNadu.



BACHELOR OF SCIENCE IN ZOOLOGY

BONAFIDE CERTIFICATE

Certified Bonafide field work report done by the student

NAME : T. SRI SUVEETHA

REGISTER NUMBER : 21-ZL-32

During 2023-2024 on "EYE IN DIFFERENT ORGANISM'S"

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
Department of Zoology
Nallamuthu Gounder Mahalingam College,
Pollachi - 642001

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Pollachi - 642001

Submitted for the Bharathiar University Practical Examination held during April
2024 at Nallamuthu Gounder Mahalingam College, Pollachi.

Date: 14-4-2024

Examiner:

Dr. S. SUBHASINI M.Sc., Ph.D., PGDBI, Ph.D.,
Assistant Professor of Zoology
Arulmighu Palani Andavar Arts College for Women
Chinnakalayampudur

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College,
Pollachi - 642001

CERTIFICATE

This is to certify that the project entitled "EYE IN DIFFERENT ORGANISM'S" submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial fulfillment of the requirements for the award of the Degree **BACHELOR OF SCIENCE IN ZOOLOGY** is a record of the original research work done by **T. SRI SUVEETHA [21-ZL-32]** during the period of 2023-2024 for his study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate of any University.

Place : Pollachi

Date : 01.04.2024



Signature of the Course Teacher

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Head of the Department

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

DECLARATION

I here by declare that the Project entitled "EYE IN DIFFERENT ORGANISM'S"
Submitted to Nallamuthu Gounder Mahalingam College, Pollachi in partial
fulfillment of the requirements for the award of the Degree **BACHELOR OF
SCIENCE IN ZOOLOGY** is a record of the original research work done by me
and this has not been formed the basis for the award of any Degree/Diploma/
Associate ship/ Fellowship or other similar title to any candidate of any University.

Place : Pollachi

Date: 01.04.2024


Signature of the candidate

T. SRI SUVEETHA

21-ZL-32

DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA

A Project submitted to

Nallamuthu Gounder Mahalingam College, Pollachi

(An Autonomous Institution Affiliated to Bharathiyar University, Coimbatore)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHLEOR OF SCIENCE IN ZOOLOGY

Submitted By,

A.M.VEDA THIRUMAKAL (21-ZL-33)



DEPARTMENT OF ZOOLOGY

NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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(Re-Accredited by NAAC and ISO 9001; 2015 Certified Institution)

POLLACHI-642001

APRIL-2024

CERTIFICATE

This is to certify that the project, entitled "**DETAILED STUDY ON BENIGN HYPERPLASIA**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by us during the period of 2023-2024 for this study in Department of Zoology.

Place: Pollachi

Date:



Signature of the Course Teacher
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.



Head of the Department
Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Nallamuthu Gounder Mahalingam College
Pollachi - 642 001.

CERTIFICATE

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A.M. Veda thirumakal 11/4/24

Signature of candidate

Place: Pollachi

A.M.Veda thirumakal

(21-ZL-33)

Date: 01/04/2024



Signature of the Course Teacher

Signature of the examiner

Dr. S. SOMASUNDARAM M.Sc., Ph.D.,
Assistant Professor and Head
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Dr. S. Subhashini
11/4/24

Dr. S. SUBHASHINI, M.Sc., Ph.D., PGDBI, Ph.D.,
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DECLARATION

I hereby declare that the Project entitled "**DETAILED STUDY ON BENIGN PROSTATIC HYPERPLASIA**" Submitted to Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi, in a partial fulfilment of the requirements for the Award of **THE DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate any University.

Place: Pollachi

Date: 01/04/2024

A.M. Vedathirumakal 1/4/24

Signature of the candidate

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(21-ZL-33).

BEE KEEPING

A Project Submitted to

**NALLAMUTHU GOUNDER MAHALINGAM
COLLEGE, POLLACHI**

(An Autonomous Institution Affiliated to Bharathiar
University, Coimbatore)

(Re-Accredited by NAAC and ISO9001:2015 Certified Institution)

In Partial fulfilment of the requirements for the award of the Degree of,

BACHELOR OF SCIENCE IN ZOOLOGY

Submitted By,

K. VINITHA

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DEPARTMENT OF ZOOLOGY

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
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APRIL -2024

CERTIFICATE

This is to certify that the project entitled "**BEE KEEPING**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, in partial fulfilment of the requirements for the award of The **DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by **K. VINITHA (21-ZL-34)** during the period of 2023-2024 for this study in DEPARTMENT OF ZOOLOGY under my guidance and supervision. This dissertation has not formed for the award of any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates of any University.

Place: Pollachi

Date : 01/04/2024


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DECLARATION

I hereby declare that the project entitled "**BEE KEEPING**" submitted to Nallamuthu Gounder Mahalingam College (Autonomous) Pollachi, in a partial fulfilment of the requirements for the award of The **DEGREE OF BACHELOR OF SCIENCE IN ZOOLOGY** is a record of original research work done by me and the dissertation has not been formed for the any Degree / Diploma / Associate ship / Fellowship or other similar title to any candidates any University.

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